

CLAIMS

Sub A¹⁶
1. A motor frame characterized in that a first cylinder housing a motor stator therein, a second cylinder disposed around said first cylinder with a space defined between said first cylinder and said second cylinder for a handled fluid to flow therethrough, and a seat disposed on an outer circumferential surface of said second cylinder for installing a frequency converter thereon, are integrally formed of one metal material.

2. A motor frame according to claim 1, characterized in that said second cylinder has on opposite axial ends thereof sockets for providing coaxial relationship with attached components and bolt seats for fastening bolts.

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3. A motor frame according to claim 2, characterized in that said seat for installing a frequency converter thereon is positioned between bolt seats in the motor frame as viewed from an axial end.

4. A motor frame according to any one of claims 1 through 3, characterized in that an axial rib interconnecting said first cylinder and said second cylinder have a length which is at least equal to one half of the overall length of the motor frame.

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Sub Q17
5. A motor frame according to any one of claims 1 through 4, characterized in that an axial end of the motor frame and a component attached to said axial end are held in direct contact with each other.

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6. A motor characterized by comprising: a motor frame according to any one of claims 1 through 5; a motor stator housed in said first cylinder of said motor frame; a motor frame side plate closing an open end of said motor frame; and a motor rotor disposed inside of said motor stator and rotatably supported by a bearing provided in said motor frame.

Sub B17
15 7. A motor pump characterized by comprising: a motor according to claim 6; an impeller fixed to a main shaft of said motor rotor; and a nozzle casing mounted on an axial end of said motor frame and housing said impeller therein.

20 8. A motor pump according to claim 7, characterized in that said nozzle casing comprises an inlet nozzle casing and an outlet nozzle casing.

25 9. A motor pump according to claim 8, characterized in that said inlet nozzle casing and said outlet nozzle casing are identical parts.

Sub Q18
10. A motor frame housing a motor stator therein,

characterized in that:

the motor frame is formed of non-austenitic cast stainless steel.

5 11. A motor frame characterized in that:

the motor frame comprises a first cylinder housing a motor stator therein and a second cylinder disposed around said first cylinder with a space defined between said first cylinder and said second cylinder for a
10 handled fluid to flow therethrough; and

said first cylinder and said second cylinder are formed of non-austenitic cast stainless steel.

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15 12. A motor frame according to claim 11, characterized in that said first cylinder and said second cylinder are formed integrally with each other.

13. A motor frame according to claim 11, characterized in that said second cylinder has a seat for
20 installing a frequency converter on an outer circumferential surface thereof; and said first cylinder, said second cylinder, and said seat are formed of non-austenitic cast stainless steel.

25 14. A motor frame according to claim 13, characterized in that said first cylinder and said second cylinder are formed integrally with each other.

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15. A motor frame according to any one of claims 10 through 14, characterized in that said non-austenitic cast stainless steel comprises martensitic stainless steel containing 15 - 17 % of chromium, 0.5 - 2 % of molybdenum, 4 - 6 % of nickel, and 0.05 % or less of carbon.

16. A motor frame according to any one of claims 10 through 14, characterized in that said non-austenitic cast stainless steel comprises ferritic stainless steel containing 20 - 30 % of chromium and 0.5 - 4 % of molybdenum.

Sub B 17

17. A motor characterized by comprising: a motor frame according to any one of claims 10 through 16; a motor stator housed in said first cylinder of said motor frame; and a motor rotor disposed inside of said motor stator and rotatably supported by a bearing provided in said motor frame.

18. A motor according to claim 17, characterized in that said motor comprises a canned motor having a rotor can sealing said motor rotor therein.

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19. A motor according to claim 17 or 18, characterized in that said motor comprises a submerged motor having a hermetically sealed structure in said motor frame.

20. A motor pump characterized by comprising: a

motor according to any one of claims 17 through 19; an impeller fixed to a main shaft of said motor rotor; and a pump casing housing said motor and said impeller therein.

5 21. A multistage motor pump characterized by comprising: a motor frame housing a motor stator and providing a passage for a handled liquid around said motor stator; a first nozzle casing mounted on an axial end of said motor frame at a variable angle as viewed in an axial
10 direction; a second nozzle casing mounted on an opposite axial end of said motor frame at a variable angle as viewed in the axial direction; and at least one impeller housed in each of said first nozzle casing and said second nozzle casing.

15 22. A multistage motor pump characterized by comprising: a motor providing a passage for a handled liquid around a motor stator; a first nozzle casing mounted on an axial end of said motor at a variable angle as viewed in an
20 axial direction; a first impeller disposed in said first nozzle casing for guiding said handled liquid to said passage around said motor stator, a second nozzle casing mounted on an opposite axial end of said motor at a variable angle as viewed in the axial direction; and a second
25 impeller disposed in the second nozzle casing for guiding said handled liquid from said passage around said motor stator, said first impeller and said second impeller having respective inlet ports directed opposite to each other.

Sub 17 23. A multistage motor pump according to claim 21
or 22, characterized in that a canned motor is used.

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